

Title (en)  
Flame-retardant epoxy resins and flame retarders for epoxy resins

Title (de)  
Flammfeste Epoxidharze und Flammenschutzmittel für Epoxidharze

Title (fr)  
Résines époxy résistant aux flammes et agents ignifugeants pour résines époxy

Publication  
**EP 0806429 B1 20011219 (DE)**

Application  
**EP 97250149 A 19970506**

Priority  
DE 19619095 A 19960506

Abstract (en)  
[origin: EP0806429A2] Derivatives of 4-hydroxybutane-1-phosphinic acid and/or its intramolecular esters of formula (Ia-f) are new: R<1>-R<8> = hydrogen or hydrocarbyl (optionally containing oxygen, nitrogen, sulphur, phosphorus, silicon and/or halogen atom(s)), not more than 3 of the groups R<1>-R<4> are hydrogen, and the groups R<1>-R<8> may be linked to form a cyclene; R<9> = hydrocarbyl with epoxy function(s) and optionally with hetero atom(s) as above. Also claimed is a process for the production of flame-inhibiting compositions.

IPC 1-7  
**C07F 9/655**; C08K 5/5313; C08L 63/00; C07F 9/6571; C08G 59/30; C08G 59/14

IPC 8 full level  
**C07F 9/655** (2006.01); **C07F 9/6571** (2006.01); **C08G 59/14** (2006.01); **C08G 59/30** (2006.01); **C08K 5/5313** (2006.01); **C08L 63/00** (2006.01); **H05K 1/03** (2006.01)

CPC (source: EP)  
**C07F 9/65502** (2013.01); **C07F 9/657172** (2013.01); **C08G 59/1488** (2013.01); **C08G 59/304** (2013.01); **C08K 5/5313** (2013.01); **H05K 1/0326** (2013.01)

C-Set (source: EP)  
**C08K 5/5313 + C08L 63/00**

Cited by  
US7342061B2; DE10338116A1; US6646064B2; CN113861510A; DE10203969C1; DE102017204982A1; EP1024168A1; DE10332291A1; EP1529783A3; US8058329B2; US7317120B2; US10010962B1; US10343231B2; DE102011118490A1; US6555227B2; WO2004113355A1; WO2019034280A1; EP2581379A2; DE102011116178A1; US7951878B2; US10350696B2; US9950857B1; US11278981B2; US6420459B1; US6365071B1; WO2011094004A2; US9267030B2; EP1125960B1; TWI481635B; WO0218469A1; WO0159002A1; EP1506968A1; US7317119B2; US6797821B2; US11174121B2; US8124716B2; US8143357B2; US8202948B2; US8372916B2; US8436108B2; US8440771B2; US8541516B2; US8586699B2

Designated contracting state (EPC)  
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